

## **What is claimed is:**

**[Claim 1]** 1. A drilling fluid filter for placement within a bore wall of a tubular drill string component, comprising;

a perforated receptacle comprising an open end and a closed end;

a hanger for engagement with the bore wall mounted at the open end of the perforated receptacle;

a mandrel attached to the perforated receptacle adjacent the open end; and

a linkage connecting the mandrel and the hanger;

wherein the mandrel operates upon the hanger through the linkage to engage and disengage the drilling fluid filter from the tubular drill string component.

**[Claim 2]** 2. The filter of claim 1 wherein the drill string component is selected from the group consisting of drill pipes, internally upset drill pipes, swivels, drill collars, and downhole tools.

**[Claim 3]** 3. The filter of claim 1 wherein the perforated receptacle comprises a generally cylindrical shape, a generally rectangular shape, a generally conical shape, an amorphous shape, or a generally spherical shape.

4. The filter of claim 1 wherein the closed end of the receptacle is perforated.

**[Claim 4]** 5. The filter of claim 1 wherein the mandrel extends beyond the closed end.

**[Claim 5]** 6. The filter of claim 1 wherein the mandrel extends beyond the open end.

**[Claim 6]** 7. The filter of claim 1 wherein the mandrel comprises an interface for top-hole equipment.

**[Claim 7]** 8. The filter of claim 1 wherein the mandrel comprises a stationary portion with a first attachment to the open end of the perforated receptacle and a telescopic adjustable portion comprising a second attachment to the linkage.

**[Claim 8]** 9. The filter of claim 1 wherein the mandrel is coaxially rotatable.

**[Claim 9]** 10. The filter of claim 1 wherein the linkage is selected from the group consisting of struts, articulated struts and cams.

**[Claim 10]** 11. The filter of claim 1 wherein the hanger comprises an engaging surface selected from the group consisting of rough surfaces, locks, struts, or pluralities of overlapping plates.

**[Claim 11]** 12. The filter of claim 1 wherein the hanger is fixed against the bore wall by compression.

**[Claim 12]** 13. The filter of claim 1 wherein the hanger is fixed against an internal shoulder of the bore wall, an internal upset of the bore wall, grooves in the bore wall, or an internal diameter of the bore wall.

**[Claim 13]** 14. A drilling fluid filter for placement within a bore wall of a tubular drill string component, comprising;

a perforated receptacle comprising an open end and an end;

a hanger for engagement with the bore wall mounted at the open end of the perforated receptacle;

a linkage connecting the hanger and to a mandrel; and

the mandrel comprising a stationary portion with a first attachment to the open end of the receptacle via a bridge and a telescopic adjustable portion with a second attachment the linkage;

wherein the mandrel operates upon the hanger through the linkage to engage and disengage the drilling fluid filter from the tubular drill string component.

[Claim 14] 15. The filter of claim 14 wherein the drill string component is selected from the group consisting of drill pipes, internally upset drill pipes, swivels, drill collars, and downhole tools.

[Claim 15] 16. The filter of claim 14 wherein the perforated receptacle comprises a generally cylindrical shape, a generally rectangular shape, a generally conical shape, an amorphous shape, or a generally spherical shape.

17. The filter of claim 14 wherein the mandrel extends beyond the closed end.

[Claim 16] 18. The filter of claim 14 wherein the mandrel extends beyond the open end.

[Claim 17] 19. The filter of claim 14 wherein the linkage is selected from the group consisting of struts, articulated struts and cams.

[Claim 18] 20. The filter of claim 14 wherein the hanger comprises an engaging surface selected from the group consisting of rough surfaces, locks, struts, or pluralities of overlapping plates.

**[Claim 19]** 21. The filter of claim 1 wherein the hanger is fixed against the bore wall by compression.

**[Claim 20]** 22. The filter of claim 1 wherein the hanger is fixed against an internal shoulder of the bore wall, an internal upset of the bore wall, a groove in the bore wall, or an internal diameter of the bore wall.